

ABSTRACT

A gas generating composition includes ammonium nitrate as an oxidizing agent, microcrystalline carbon powder as a reducing agent, and a stabilizer for preventing decomposition of ammonium nitrate. The amounts of the ammonium nitrate, the carbon powder, and the stabilizer are 89 to 99wt%, 1 to 6wt%, and 0.2 to 6wt%, respectively, with respect to the total amount of ammonium nitrate, microcrystalline carbon and stabilizer. The amount of microcrystalline carbon is preferably 1.5 to 6wt% with respect to the amount of ammonium nitrate, and the amount of the stabilizer is preferably 10 to 200wt% with respect to the amount of microcrystalline carbon powder. The stability of present composition is improved, especially, at high temperatures. The composition has an appropriate burn rate, produces substantially no carbon dioxide, and has a proper sensitivity. The present composition is easy to handle and is inexpensive.

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